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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,196	07/25/2005	Kai Desinger	3254	5577
	7590 09/10/200 YSVER P.L.L.C.	EXAMINER		
2900 THOMAS	S AVENUE SOUTH		HOLMES, REX R	
SUITE 100 MINNEAPOLIS, MN 55416			ART UNIT	PAPER NUMBER
			3762	
			MAIL DATE	DELIVERY MODE
			09/10/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/518,196	DESINGER ET AL.				
		Examiner	Art Unit				
		REX HOLMES	3762				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in an analysis of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on <u>21 Ap</u>	oril 2009					
'=	· · · · · · · · · · · · · · · · · · ·	action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٥/ك	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	closed in accordance with the practice and i	x parto quayro, 1000 C.B. 11, 10	0.0.210.				
Dispositi	on of Claims						
4)🛛	Claim(s) 1,3 and 8-16 is/are pending in the app	olication.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1,3 and 8-16</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9)□	The specification is objected to by the Examine	r					
•			Examiner.				
.0/	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
The patrior declaration is objected to by the Examiner. Note the attached office Action of John 170-102.							
Priority ι	ınder 35 U.S.C. § 119						
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been received I (PCT Rule 17.2(a)).	on No ed in this National Stage				
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 3/27/09.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 8, 13-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 8 recites, "wherein the marker element is in the form of a coating...", this claim is conflicting as the independent claim states that the marker element is a wire. It is unclear how the wire is just a coating.
- 4. Claims 9 recites, "wherein the marker element is in the form of a wire" in line 5 and "the marker element is in the form of a coating" in line 7. This claim is conflicting as the claim states that the marker element is in the form of a wire and in the form of a coating. The specification is silent as the device having multiple marker elements.
- 5. Claims 10 recites, "wherein the marker element is in the form of a wire" in line 5 and "the marker element is in the form of a coating" in line 9. This claim is conflicting as the claim states that the marker element is in the form of a wire and in the form of a coating. The specification is silent as the device having multiple marker elements.
- 6. Claim 13 recites, "wherein the marker element is in the form of a wire coil". This claim is conflicting as the independent claim states that the marker element is in the form of a wire and then claim 13 states that the marker element is in the form of a wire

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coating. The specification is silent as the device having multiple marker elements. It is suggested to say wherein the wire is further coiled.

7. Claim 16 recites, "wherein the element is in the form of a straight, nuclear magnetic resonance-active wire containing a ferromagnetic material. This claim is conflicting as the independent claim states that the marker element is a wire. It is suggested to say, "wherein the wire is nuclear magnetic resonance-active and contains a ferromagnetic material.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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10. Claims 1, 3, 8, 11-13 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindgren et al. (U.S. Pat. 6,728,579 hereinafter "Lindgren") in view of Schmidt (U.S. Pub. 2002/0095202).

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- 11. Regarding claims 1, 3, 8, 11-13 and 15-16, Lindgren discloses an electrode needle with a shaft (12), with a casing surrounding the shaft (not numbered but encompasses the area wherein the electrodes are embedded) in turn defining a lumen (24), active electrodes on the shaft (36) and a conductor (38) in the form of a conductor that is located with shaft in the wall of the casing and extending the entire length of the electrodes (Col. 4, line 47 to Col. 5, line 12; Fig. 1, "the conductor runs the entire length of the device and thus extends the entire length of the electrodes"). Lindgren further discloses that the wire can be coiled around the lumen forming a spring-like shape that acts as a sleeve (Col. 5, II. 6-12).
- 12. Regarding claims 1, 3, 8, 11-13 and 15-16, Lindgren discloses an electrode needle but fails to disclose the material that the conductor is made out of and the it being a nuclear magnetic resonance marker. However, Schmidt discloses an electrode catheter that utilizes platinum or stainless steel wires as the conductors which are nuclear magnetic markers since both platinum and stainless steel are radiopaque. It would have been an obvious matter of design choice to a person of ordinary skill in the art to modify the conductor as taught by Lindgren with a platinum or stainless steel wire made out of the marker material as taught by Schmidt to provide the predictable results of allowing the device to have a good reliable conductor that allows for device to be seen by imaging devices during surgery.

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Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 14. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 15. Claims 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindgren in view of Schmidt as applied to claims 1, 3, 11-13 and 15-16 above, and further in view of Kiser et al. (U.S. Pat. 5,327,909 hereinafter "Kiser").
- 16. Regarding claims 8-10, Lindgren in view of Schmidt discloses the claimed invention including that the marker, but Lindgren in view of Schmidt fails to explicitly disclose that the marker is sprayed on the inside of the lumen. However, Kiser teaches that it is known to use radiopaque coatings on implantable leads and catheters to produce a visible image on the viewing screen of a magnetic resonance imaging device. It would have been obvious to one having ordinary skill in the art at the time the

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invention was made to modify the marker as taught by Lindgren in view of Schmidt, with radiopaque coating as taught by Weber since such a modification would provide the device of Lindgren in view of Schmidt with a radiopaque coating that would disturb the magnetic field in a nuclear magnetic resonance field so as to produce a visible image on the viewing screen of a magnetic resonance imaging device.

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- 17. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lindgren in view of Schmidt as applied to claims 1, 3, 11-13 and 15-16 above, and further in view of Gisselberg et al. (U.S. Pub. 2003/0052785 hereinafter "Gisselberg").
- 18. Regarding claims 8-10 and 12-16, Lindgren in view of Schmidt discloses the claimed invention including that the marker, but Lindgren in view of Schmidt fails to explicitly disclose that wire is coiled and tuned to the frequency of the Magnetic Resonance Imaging Device. However, Gisselberg teaches that it is known to use coiled ferromagnetic material tuned to a resonate frequency as set forth in Paragraphs 7, 8, 57, 73 and Claim 21 to provide a disturbance in the magnetic field in a nuclear magnetic resonance field so as to produce a visible image on the viewing screen of a magnetic resonance imaging device. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the magnopaque marker as taught by Lindgren in view of Schmidt, with a ferromagnetic material as taught by Gisselberg since such a modification would provide the device of Lindgren in view of Schmidt with a ferromagnetic coiled marker tuned to the magnetic resonance frequency so that it would disturb the magnetic field in a nuclear magnetic resonance field so as to produce a visible image on the viewing screen of a magnetic resonance imaging device.

Response to Arguments

Applicant's arguments with respect to claims 1, 3, 8-16 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

19. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to REX HOLMES whose telephone number is (571)272-8827. The examiner can normally be reached on M-F 9:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on 571-272-4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George R Evanisko/

Primary Examiner, Art Unit 3762

/R. H./ Examiner, Art Unit 3762